

CLAIMS

What is claimed is:

1 1. A method of determining participants of a distributed operation in a distributed
2 system, the method comprising the steps of:
3 registering in a name service participant data that identifies a plurality of
4 participants that are participating in said distributed operation; and
5 causing a node that requires information about participants in said distributed
6 operation to retrieve said participant data from said name service.

1 2. The method of Claim 1, wherein the step of causing a node to retrieve said
2 participant data includes causing said node to retrieve said participant data in
3 response to said node performing deadlock detection.

1 3. The method of Claim 1, wherein:
2 said distributed operation is a distributed transaction; and
3 the step of registering includes registering in a name service participant data that
4 identifies which database servers of a plurality of database servers are
5 participating in said distributed transaction.

1 4. The method of Claim 1, further including the step of causing updates to said
2 participant data to identify a new participant in said distributed operation.

1 5. The method of Claim 4, wherein:

2 said distributed operation is a distributed database transaction being executed by a
3 set of processes coordinated by a coordinator process;
4 the method further includes the step of said coordinator process causing a new
5 process on a database server to participate in said distributed database
6 transaction; and
7 the step of causing updates to said participant data includes said coordinator
8 process causing updates to said participant data in response to said new
9 process participating in said distributed database transaction.

1 6. The method of Claim 1, wherein
2 said distributed operation is a distributed database transaction;
3 the step of registering includes registering participant data that identifies which
4 database servers of a plurality of database servers are participating in said
5 distributed database transaction; and
6 the step of causing a node to retrieve said participant data includes causing a node
7 that requires information about participants in said distributed database
8 transaction to retrieve said participant data from said name service.

1 7. The method of Claim 1, wherein:
2 said distributed operation is a distributed database transaction;
3 the method further includes the step of assigning a transaction identifier to said
4 distributed database transaction;
5 the step of registering includes registering in said name service data that associates
6 said participant data with said transaction identifier; and

7 the step of causing a node includes causing a node to request from said name
8 service published data associated with said transaction identifier.

1 8. The method of Claim 1, wherein the step of causing a node to retrieve said
2 participant data includes said name service process receiving a request from a first
3 process to supply said participant data, wherein said name service process and
4 said first process reside on said node.

1 9. The method of Claim 8, wherein the step of causing a node to retrieve said
2 participant data includes said name service process retrieving said participant data
3 from one or more data structures residing on said node in response to receiving
4 said request.

1 10. The method of Claim 1, wherein the step of causing a node to retrieve said
2 participant data includes a name service process receiving a request from a first
3 process to supply said participant data, wherein said name service process and
4 said first process reside on said node.

1 11. A computer-readable medium carrying one or more sequences of one or more
2 instructions for determining participants of a distributed operation in a distributed
3 system, the one or more sequences of one or more instructions including
4 instructions which, when executed by one or more processors, cause the one or
5 more processors to perform the steps of:
6 registering in a name service participant data that identifies a plurality of
7 participants that are participating in said distributed operation; and

8 causing a node that requires information about participants in said distributed
9 *A 2
and* operation to retrieve said participant data from said name service.

12. The computer-readable medium of Claim 11, wherein the step of causing a node to retrieve said participant data includes causing said node to retrieve said participant data in response to said node performing deadlock detection.

The computer-readable medium of Claim 11, wherein:

 said distributed operation is a distributed transaction; and

 the step of registering includes registering in a name service participant data that

 identifies which database servers of a plurality of database servers are

 participating in said distributed transaction.

1 14. The computer-readable medium of Claim 11, further including the step of causing
2 updates to said participant data to identify a new participant in said distributed
3 operation.

1 15. The computer-readable medium of Claim 14, wherein:
2 said distributed operation is a distributed database transaction being executed by a
3 set of processes coordinated by a coordinator process;
4 the computer-readable medium further includes sequences of instructions for
5 performing the step of said coordinator process causing a new process on a
6 database server to participate in said distributed database transaction; and

7 the step of causing updates to said participant data includes said coordinator
8 process causing updates to said participant data in response to said new
9 process participating in said distributed database transaction.

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1 16. The computer-readable medium of Claim 11, wherein
2 said distributed operation is a distributed database transaction;
3 the step of registering includes registering participant data that identifies which
4 database servers of a plurality of database servers are participating in said
5 distributed database transaction; and
6 the step of causing a node to retrieve said participant data includes causing a node
7 that requires information about participants in said distributed database
8 transaction to retrieve said participant data from said name service.

1 17. The computer-readable medium of Claim 11, wherein:
2 said distributed operation is a distributed database transaction;
3 the computer-readable medium further includes sequences of instructions for
4 performing the step of assigning a transaction identifier to said distributed
5 database transaction;
6 the step of registering includes registering in said name service data that associates
7 said participant data with said transaction identifier; and
8 the step of causing a node includes causing a node to request from said name
9 service published data associated with said transaction identifier.

1 18. The computer-readable medium of Claim 11, wherein the step of causing a node
2 to retrieve said participant data includes said name service process receiving a

3 request from a first process to supply said participant data, wherein said name
4 service process and said first process reside on said node.

1 19. The computer-readable medium of Claim 18, wherein the step of causing a node
2 to retrieve said participant data includes said name service process retrieving said
3 participant data from one or more data structures residing on said node in response
4 to receiving said request.

1 20. The computer-readable medium of Claim 1, wherein the step of causing a node to
2 retrieve said participant data includes a name service process receiving a request
3 from a first process to supply said participant data, wherein said name service
4 process and said first process reside on said node.

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